

CLAIMS

Having thus described the invention, what is claimed is:

1. A dispenser comprising:

(a) a container providing a cavity and a discharge opening at one end;

(b) a piston in said cavity and having a peripheral wall portion sealing against the inner wall of the container defining said cavity, said piston having a front wall and a centrally disposed passage therethrough;

(c) a sealing plug of resiliently deformable material seated in said passage and having a peripheral flange about the front end thereof adjacent each discharge opening, said flange bearing upon the surface of said front wall of said piston about said passage to effect a seal therebetween; and

(d) a filler push rod extending into said container cavity and having one end bearing upon the surface of said sealing plug spaced from said discharge opening, said push rod being movable against the other end of said plug to move said flange of said plug away from said surface of said piston to allow air to vent through said passage about the periphery of said plug.

2. The dispenser in accordance with Claim 1 wherein said front wall of said piston is concave.

3. The dispenser in accordance with Claim 1 wherein said piston has an annular body portion connected to said peripheral wall by said front wall, said front wall having a center portion radially inwardly of said annular body portion and in which said passage is provided.

4. The dispenser in accordance with Claim 3 wherein said piston peripheral wall portion has at least one sealing ring extending thereabout at its end adjacent said front wall.

5. The dispenser in accordance with Claim 4 wherein said piston peripheral wall portion has a second sealing ring extending thereabout adjacent the other end thereof.

6. The dispenser in accordance with Claim 5 wherein said sealing rings are formed from a resiliently deflectable resin.

7. The dispenser in accordance with Claim 1 wherein said front wall of said piston has a recess in the central portion thereof in which said plug is seated.

8. The dispenser in accordance with Claim 1 wherein said plug has a convex face on its front end and a multiplicity of axial projections on the other end thereof against which said filler push rod may bear after filling of the cavity to cause the deflection of said flange and release any entrapped air in said cavity.

9. The dispenser in accordance with Claim 8 wherein said filling push rod has a pusher body with a front end having a central projection thereon to bear upon only said plug.

10. The dispenser in accordance with Claim 1 wherein a dispenser push rod used for the dispensing of the contents bears upon the body of said piston and does not effect deflection of said flange of said plug.

11. The dispenser in accordance with Claim 7 wherein the body of said plug has a peripheral surface tapering to a reduced diameter at its rear end.